

Title (en)

SYSTEM AND METHOD FOR CONTROLLING MULTIPLE ELEVATOR CABS IN AN ELEVATOR SHAFT

Title (de)

SYSTEM UND VERFAHREN ZUR STEUERUNG MEHRERER AUFZUGKABINEN IN EINEM AUFZUGSSCHACHT

Title (fr)

SYSTÈME ET PROCÉDÉ POUR COMMANDER DE MULTIPLES CABINES D'ASCENSEUR DANS UNE CAGE D'ASCENSEUR

Publication

EP 3356269 A4 20190731 (EN)

Application

EP 16852515 A 20160928

Priority

- US 201514868293 A 20150928
- US 2016054234 W 20160928

Abstract (en)

[origin: US2017088393A1] A system and method for controlling multiple elevator cabs in an elevator shaft of a structure, where at least one elevator shaft having a plurality of zones, each zone representing at least one floor of the structure; at least one zone having at least one sensor; at least two elevator cabs moveable within the shaft, each cab moveable independently of other cabs; and a controller that determines movement of each cab into a zone. A first cab preceding any other cab, designated a leading cab; each cab following the leading cab, designated as a trailing cab; each cab moveable in the same direction of travel to service zones until each cab reaches its designated end zone; wherein the controller only instructs a trailing cab to move into a zone with a sensor, after the sensor in the zone detects a cab that was located in such zone has exited that zone thereby preventing collisions.

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

- [XAYI] US 5419414 A 19950530 - SAKITA MASAMI [US]
- [YA] US 8739936 B2 20140603 - KOSTKA MIROSLAV [CH], et al
- [A] US 2011031069 A1 20110210 - KOCHER HANS [CH], et al
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- See references of WO 2017058952A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

US 2017088393 A1 20170330; **US 9650226 B2 20170516**; CA 3038261 A1 20170406; CA 3038261 C 20210629; CN 108473271 A 20180831; CN 108473271 B 20200428; EP 3356269 A1 20180808; EP 3356269 A4 20190731; JP 2018532666 A 20181108; JP 6779990 B2 20201104; KR 102168771 B1 20201022; KR 20180090254 A 20180810; KR 20200029582 A 20200318; WO 2017058952 A1 20170406

DOCDB simple family (application)

US 201514868293 A 20150928; CA 3038261 A 20160928; CN 201680069566 A 20160928; EP 16852515 A 20160928; JP 2018515896 A 20160928; KR 20187011971 A 20160928; KR 20207005302 A 20160928; US 2016054234 W 20160928